

21 5. A system for loading Java class files from a server to a client device comprising:

- a. a gateway coupled to said server and responsive to a Java class file for creating a c-code representation of said class file;
- b. said gateway creating a binary representation of said c-code representation;
- c. a network coupled between said gateway and said client device for sending the binary representation to said client device;
- d. a loader for loading said binary representation at said client device; and
- e. means for copying said binary representation into the internal class structure in an interpreter of said client device.

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22 7. A method for loading Java class files to an embedded client device from a server comprising the steps of:

- a. gateway retrieving a Java class file;
- b. gateway preloading and preresolving the Java class file to produce a representation of the Java class file;
- c. determining at the gateway a new portion of the representation;
- d. creating at the gateway a binary representation of only said new portion of the preloaded and preresolved representation of the Java class file;
- e. sending said binary representation to the embedded client device;
- f. loading said binary representation into said embedded client device; and
- g. copying said binary representation into the internal class structures in the interpreter of a Java virtual machine of the embedded client device.

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23 9. The system of Claim 8, wherein said gateway includes means for determining new portions of said preloaded and preresolved representations of the class and sending only said new portions to said embedded client device.

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